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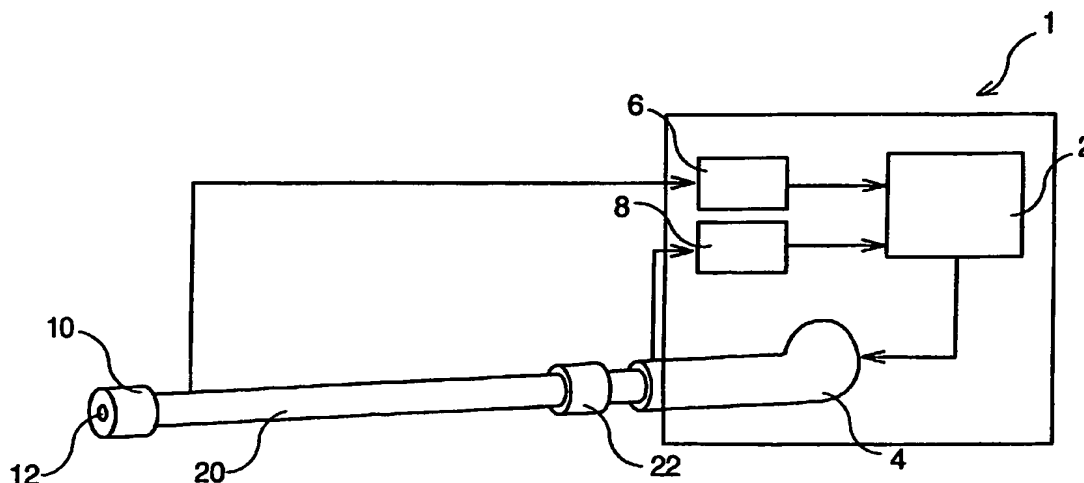
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- (72) Inventors; and (75) Inventors/Applicants (*for US only*): DELACHE, Alain [FR/FR]; 15, avenue de la Roseraie, F-06300 Nice (FR). DELACHE, Véronique [FR/FR]; 15, avenue de la Roseraie, F-06300 Nice (FR).
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(54) Title: A BREATHING APPARATUS WITH COMPUTATION OF THE AIRFLOW PROVIDED TO THE PATIENT USING ONLY PRESSURE SENSORS



(57) Abstract: The invention concerns an apparatus (1) to assist patient respiration by delivering air to a patient through a mask, said mask being designed to be connected on one first extremity of a tube (20), said apparatus (1) comprising, a) a control unit (2) to adjust the pressure delivered by the blower (4) of said apparatus (1), b) a first pressure sensor (6) for sensing the pressure PM at said first tube extremity and being connected to said control unit (2), and c) a second pressure sensor (8) for sensing the pressure PB at the air output of said blower (4) and being connected to said control unit (2); in order that, when a tube (20) is connected to said mask and connected to said apparatus (1) on its said second extremity, the air flowing from the apparatus (1) to the mask, said control unit (2) is able to calculate the airflow at said, second extremity of the tube (20) from said pressures PM and PB and from the airflow resistance coefficient K_r of said tube (20).

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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Valfort, C

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